

Recovery Plan Action Status

Plan Name: Recovery Plan for 7 mussels

Plan Status: Final

Plan Date: 19-Sep-03

Lead Agency: USFWS

Lead Office: Panama City Ecological Services Field Office

(850)

769-0552)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Chipola slabshell (Elliptio chipolaensis), Oval pigtoe (Pleurobema pyriforme), Shinyrayed pocketbook (Lampsilis subangulata), Fat three-ridge (muschel) (Amblema neislerii), Purple bankclimber (muschel) (Elliptioideus sloatianus), Gulf moccasinshell (Medionidus penicillatus), Ochlockonee moccasinshell (Medionidus simpsonianus)	2	1.1	Continue to use existing laws, regulations, programs to protect species and habitat	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, County governments, U.S. Fish and Wildlife Service, Law Enforcement Division, Local Governments, Federal Agencies, State agencies	Other: Information and Education, Other: Law Enforcement, Other: Regulations	Internal Field Assistance, Internal Technical Assistance	
Chipola slabshell (Elliptio chipolaensis), Oval pigtoe (Pleurobema pyriforme), Shinyrayed pocketbook (Lampsilis subangulata), Fat three-ridge (muschel) (Amblema neislerii), Purple bankclimber (muschel) (Elliptioideus sloatianus), Gulf moccasinshell (Medionidus penicillatus), Ochlockonee moccasinshell (Medionidus simpsonianus)	1	1.2.1	Provide information and request support of state and local governments for recovery efforts	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division	Management: Planning, Other: Information and Education	Graduate Student, Internal Technical Assistance	

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Chipola slabshell (Elliptio chipolaensis), Oval pigtoe (Pleurobema pyriforme), Shinyrayed pocketbook (Lampsilis subangulata), Fat three-ridge (muschel) (Amblema neislerii), Purple bankclimber (muschel) (Elliptioideus sloatianus), Gulf moccasinsshell (Medionidus penicillatus), Ochlockonee moccasinsshell (Medionidus simpsonianus)	2	1.2.3	Develop cooperative ventures to restore riparian habitat	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Alabama Forestry Commission, Florida Department of Agriculture and Consumer Services, including Forestry Division, Georgia Department of Natural Resources, U.S. Forest Service, U.S. Dept. of Agriculture	Acquisition, Management, Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	

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Chipola slabshell (Elliptio chipolaensis), Oval pigtoe (Pleurobema pyriforme), Shinyrayed pocketbook (Lampsilis subangulata), Fat three-ridge (muschel) (Amblema neislerii), Purple bankclimber (muschel) (Elliptioideus sloatianus), Gulf moccasinshell (Medionidus penicillatus), Ochlockonee moccasinshell (Medionidus simpsonianus)	2	1.3.2	Characterize species' habitats for all life history stages	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Universities	Research: Habitat Requirements, Research: Habitat Status	Graduate Student, Internal Technical Assistance	

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Chipola slabshell (Elliptio chipolaensis), Oval pigtoe (Pleurobema pyriforme), Shinyrayed pocketbook (Lampsilis subangulata), Fat three-ridge (muschel) (Amblema neislerii), Purple bankclimber (muschel) (Elliptioideus sloatianus), Gulf moccasinshell (Medionidus penicillatus), Ochlockonee moccasinshell (Medionidus simpsonianus)	2	1.3.4	Determine contaminant sensitivity for life stages	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Geological Survey, Biological Resources Division, Universities	Research: Environmental Contaminants	Internal Field Assistance, Internal Technical Assistance	

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Chipola slabshell (Elliptio chipolaensis), Oval pigtoe (Pleurobema pyriforme), Shinyrayed pocketbook (Lampsilis subangulata), Fat three-ridge (muschel) (Amblema neislerii), Purple bankclimber (muschel) (Elliptioideus sloatianus), Gulf moccasinsshell (Medionidus penicillatus), Ochlockonee moccasinsshell (Medionidus simpsonianus)	2	1.3.6	Determine number of specimens and sex ratio to maintain long-term natural viable subpopulations	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Geological Survey, Biological Resources Division, Universities	Research: Demographic Studies, Research: Other Information, Research: Population Surveys	Internal Technical Assistance	

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Chipola slabshell (Elliptio chipolaensis), Oval pigtoe (Pleurobema pyriforme), Shinyrayed pocketbook (Lampsilis subangulata), Fat three-ridge (musssel) (Amblema neislerii), Purple bankclimber (musssel) (Elliptioideus sloatianus), Gulf moccasinsshell (Medionidus penicillatus), Ochlockonee moccasinsshell (Medionidus simpsonianus)	2	2.1	Develop a prioritized list by species of streams and stream reaches that should be surveyed	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Universities, Federal Agencies, State agencies	Management: Planning, Research: Population Surveys	Internal Field Assistance, Internal Technical Assistance	

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Shinyrayed pocketbook (Lampsilis subangulata), Purple bankclimber (musssel) (Elliptioideus sloatianus), Ochlockonee moccasinsshell (Medionidus simpsonianus)	2	2.2.2	Implement surveys in streams identified in 2.1 to locate additional subpopulations of species	Ongoing Current	FY 2009		Universities, U.S. Fish and Wildlife Service, Fisheries Resource Division, Federal Agencies, State agencies	Research: Population Surveys	Internal Field Assistance	Currently we are conducting a status survey in the Ochlockonee River Drainage for the Ochlockonee moccasinsshell, purple bankclimber, oval pigtoe, and the shinyrayed pocketbook.
Chipola slabshell (Elliptio chipolaensis), Oval pigtoe (Pleurobema pyriforme), Shinyrayed pocketbook (Lampsilis subangulata), Fat three-ridge (musssel) (Amblema neislerii), Purple bankclimber (musssel) (Elliptioideus sloatianus), Gulf moccasinsshell (Medionidus penicillatus), Ochlockonee moccasinsshell (Medionidus simpsonianus)	2	3.1	Develop or adopt a mussel propagation, augmentation, and reintroduction plan for these seven species	Ongoing Not Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Universities, U.S. Fish and Wildlife Service, Fisheries Resource Division, Federal Agencies, State agencies	Management: Planning, Management: Propagation, Management: Reintroduction	Internal Field Assistance, Internal Technical Assistance	

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Chipola slabshell (Elliptio chipolaensis), Oval pigtoe (Pleurobema pyriforme), Shinyrayed pocketbook (Lampsilis subangulata), Fat three-ridge (musssel) (Amblema neislerii), Purple bankclimber (musssel) (Elliptioideus sloatianus), Gulf moccasinsshell (Medionidus penicillatus), Ochlockonee moccasinsshell (Medionidus simpsonianus)	2	3.3.1	Identify and prioritize as a prerequisite for augmentation extant subpopulations based on biological, ecological, and habitat characterization	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Universities, Federal Agencies, State agencies	Management: Planning, Research: Habitat Requirements, Research: Habitat Status, Research: Population Surveys	Internal Field Assistance, Internal Technical Assistance	

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Chipola slabshell (Elliptio chipolaensis), Oval pigtoe (Pleurobema pyriforme), Shinyrayed pocketbook (Lampsilis subangulata), Fat three-ridge (musssel) (Amblema neislerii), Purple bankclimber (musssel) (Elliptioideus sloatianus), Gulf moccasinsshell (Medionidus penicillatus), Ochlockonee moccasinsshell (Medionidus simpsonianus)	1	3.5	Identify, prioritize, and implement actions to protect or restore habitats in streams and watersheds slated for reintroductions of subpopulations in need of protection from further threats	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Federal Agencies, State agencies	Management: Habitat Maintenance and Manipulation, Research: Habitat Requirements, Research: Habitat Status, Research: Reintroduction	Internal Field Assistance, Internal Technical Assistance	

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Chipola slabshell (Elliptio chipolaensis), Oval pigtoe (Pleurobema pyriforme), Shinyrayed pocketbook (Lampsilis subangulata), Fat three-ridge (musssel) (Amblema neislerii), Purple bankclimber (musssel) (Elliptioideus sloatianus), Gulf moccasinsshell (Medionidus penicillatus), Ochlockonee moccasinsshell (Medionidus simpsonianus)	2	4.1	Develop a comprehensive Geographic Information System (GIS) database and update regularly	Partially Complete	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service	Other: Information and Education, Research: Other Information, Research: Population Surveys	Internal Technical Assistance	

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Chipola slabshell (Elliptio chipolaensis), Oval pigtoe (Pleurobema pyriforme), Shinyrayed pocketbook (Lampsilis subangulata), Fat three-ridge (musssel) (Amblema neislerii), Purple bankclimber (musssel) (Elliptioideus sloatianus), Gulf moccasinsshell (Medionidus penicillatus), Ochlockonee moccasinsshell (Medionidus simpsonianus)	3	5.1	Develop an education/outreach program	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Federal Agencies, State agencies	Other: Information and Education	Internal Technical Assistance	

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Chipola slabshell (Elliptio chipolaensis), Oval pigtoe (Pleurobema pyriforme), Shinyrayed pocketbook (Lampsilis subangulata), Fat three-ridge (muschel) (Amblema neislerii), Purple bankclimber (muschel) (Elliptioideus sloatianus), Gulf moccasinsshell (Medionidus penicillatus), Ochlockonee moccasinsshell (Medionidus simpsonianus)	3	6.1	Meet with stakeholders	Ongoing Not Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, All Stakeholders	Management: Planning, Other: Information and Education	Internal Technical Assistance	

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